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	Application No.	Applicant(s)	
Al- Cas of Allowability	10/721,550	MIYASITA ET AL.	
Notice of Allowability	Examiner	Art Unit	_
	John B Nguyen	2819	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-8! NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	n this application. If not include unication will be mailed in due	ed course. <b>THIS</b>
1. X This communication is responsive to 10/07/2004.			
2. ☑ The allowed claim(s) is/are <u>2 and 4-17</u> .			
3. X The drawings filed on 26 November 2003 are accepted b	y the Examiner.		
4.  Acknowledgment is made of a claim for foreign priority (a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 1.  Certified copies not received:  **Certified copies not received:  **Certified copies not received:  **Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be substituted by the Substitute of DRAWINGS (as "replacement sheets") must be substituted by the Notice of Draftspe 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examine Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	ve been received. ve been received in Application documents have been received.  To of this communication to file IMENT of this application.  Imitted. Note the attached EXA ives reason(s) why the oath or just be submitted.  In the submitted is reson's Patent Drawing Review is Amendment / Comment or it. 1.84(c)) should be written on the submitted in the submitted of the submitte	on No  d in this national stage applicate a reply complying with the requestion and the reply application of the drawings in the front (not the	quirements OTICE OF
<ol> <li>DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT</li> </ol>			lote the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB	) 6. ☐ Interview Su Paper No./l	formal Patent Application (PTC ummary (PTO-413), Mail Date Amendment/Comment	)-152)
Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's : 9. ☐ Other	Statement of Reasons for Allov	wance

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## **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 2, 4-17 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The prior art fails to show a demodulating circuit for demodulating a pulse signal including runs of identical '1' or '0' symbols including: a hysteresis comparator comprises a comparator element having an inverting input terminal for receiving the first reference voltage, a non-inverting input terminal for receiving the differentiated signal; a logic level converting unit for converting the first state of the intermediate signal to the first logic level and converting the second state of the intermediate signal to the second logic level; a differentiating circuit comprising a differentiating capacitor coupling the pulse signal to the non-inverting input terminal of the comparator; an inverting amplifier with a negative feedback resistance; a limiting element for limiting an amplitude of the differentiated signal; a low-pass filter for removing high-frequency noise from the pulse signal. Therefore, claims 2, 4-17 are presently allowed.

## Conclusion

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Nguyen whose telephone number is (571) 271-1808. The examiner can normally be reached on 8AM-4:30 PM M-F.

John B. Nguyen December 20, 2004

> Michael Tokar Supervisory Patent Examiner

Technology Center 2800